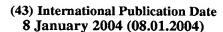
(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau





PCT

! EBBIN BIJUDDI I DONIK IJIN BENK BENI DIBI I I NA BENI DIJAD INK BIJUN BIJUD DIJAD INI DIBI DIJAD INI DIBI I

(10) International Publication Number WO 2004/003613 A1

(51) International Patent Classification⁷: E01F 9/06

G02B 6/26,

(21) International Application Number:

PCT/IB2003/002487

(22) International Filing Date:

4 June 2003 (04.06.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 02291619.1

28 June 2002 (28.06.2002) E

- (71) Applicant (for all designated States except US): KONIN-KLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
- (72) Inventor; and

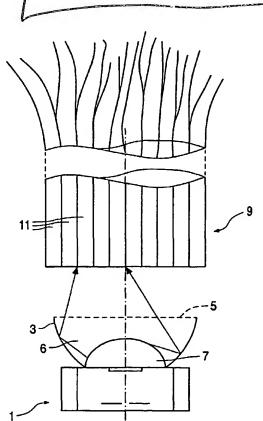
(75) Inventor/Applicant (for US only): MONTAGNE, Louis

[FR/FR]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

- (74) Agent: PET, Robert, J.; Philips Intellectual Property & Standards, Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,

[Continued on next page]

(54) Title: LUMINAIRE AND DYNAMIC ROAD-MARKING UNIT



(57) Abstract: A luminaire 1 comprising a light-directing element 3, e.g. a reflector, having a light emission window 5. Said reflector has a shape for directing light originating from an electric light source 7 into an optical fiber system 9 positioned in front of the light emission window. The optical fiber system comprises a bundle of optical fibers 11. Said shape is calculated in accordance with a ray-tracing algorithm which takes into account that said light source is voluminous, e.g. a Light Emitting Diode. The reflector has a shape which is composed of n solids of revolution of parabolic sectors 13, wherein said (adjoining) parabolic sectors form an integral surface 15. The invention further relates to a dynamic road marking unit 19.